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1 [Evaluating the performance of user-space and kernel-space web servers](#)

Amol Shukla, Lily Li, Anand Subramanian, Paul A. S. Ward, Tim Brecht

October 2004 CASCON '04: Proceedings of the 2004 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available: pdf(91.70 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

There has been much debate over the past few years about the practice of moving traditional user-space applications, such as web servers, into the kernel for better performance. Recently, the user-space user web server has shown promising performance ...

2 [Distributed interface bits: dynamic dialogue composition from ambient computing resource](#)

Anthony Savidis, Constantine Stephanidis

May 2005 Personal and Ubiquitous Computing, Volume 9 Issue 3

Publisher: Springer-Verlag

Full text available: pdf(1.70 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

This paper discusses a particular issue in the context of disappearing computing, namely, user mobility. Mobile users may carry with them a variety of wireless gadgets while being immersed a physical environment encompassing numerous computing devices. ...

Keywords: Abstract dialogue elements, Adaptive interaction, Ambient dialogues, Dynamic user interface composition, Wearable interfaces

3 [Advocating a remote socket architecture for internet access using wireless LANs](#)

M. Schläger, B. Rathke, A. Wolisz, S. Bodenstein

January 2001 Mobile Networks and Applications, Volume 6 Issue 1

Publisher: Kluwer Academic Publishers

Full text available: pdf(490.10 KB)

Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)

Keywords: TCP, internet access, measurement, performance, socket-interface, wireless LAN

4 [Access control with IBM Tivoli access manager](#)

Günter Karjoth



May 2003 ACM Transactions on Information and System Security (TISSEC). Volume 6 Issue 2

Publisher: ACM

Full text available: [pdf\(367.07 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Web presence has become a key consideration for the majority of companies and other organizations. Besides being an essential information delivery tool, the Web is increasingly being regarded as an extension of the organization itself, directly integrated ...

Keywords: Access control, WWW security, Web servers, authorization management

5 [A dynamic network architecture](#)



Sean W. O'Malley, Larry L. Peterson

May 1992 ACM Transactions on Computer Systems (TOCS). Volume 10 Issue 2

Publisher: ACM

Full text available: [pdf\(401.43 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Network software is a critical component of any distributed system. Because of its complexity, network software is commonly layered into a hierarchy of protocols, or more generally, into a protocol graph. Typical protocol graphs—including ...

Keywords: composibility, dynamic configuration, reuse

6 [Evaluating grid portal security](#)



David Del Vecchio, Victor Hazlewood, Marty Humphrey

November 2006 SC '06: Proceedings of the 2006 ACM/IEEE conference on Supercomputing

Publisher: ACM

Full text available: [pdf\(168.69 KB\)](#) [html\(2.21 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Grid portals are an increasingly popular mechanism for creating customizable, Web-based interfaces to Grid services and resources. Due to the powerful, general-purpose nature of Grid technology, the security of any portal or entry point to such resources ...

7 [Singularity: rethinking the software stack](#)



Galen C. Hunt, James R. Larus

April 2007 ACM SIGOPS Operating Systems Review. Volume 41 Issue 2

Publisher: ACM

Full text available: [pdf\(426.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Every operating system embodies a collection of design decisions. Many of the decisions behind today's most popular operating systems have remained unchanged, even as hardware and software have evolved. Operating systems form the foundation of almost ...


Keywords: hardware protection domains, manifest-based programs (MBPs), operating systems program specification, program verification, safe programming languages, sealed kernel, sealed process architecture, software-isolated processes (SIPs), unsafe code tax

8 [SYNTONY: network protocol simulation based on standard-conform UML 2 models](#)

Isabel Dietrich, Falko Dressler, Volker Schmitt, Reinhard German

October 2007 ValueTools '07: Proceedings of the 2nd international conference on Performance evaluation methodologies and tools

Publisher: ICST (Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering)

Full text available:  [pdf\(486.91 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper, we discuss the need for using standardized graphical modeling languages for developing and evaluating simulation models. In particular, we use UML 2 diagrams to construct simulation models to be executed in an event-driven simulation framework ...

9 [A simple mechanism for capturing and replaying wireless channels](#)



Glenn Judd, Peter Steenkiste

August 2005 E-WIND '05: Proceedings of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis

Publisher: ACM

Full text available:  [pdf\(6.06 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility ...

Keywords: channel capture, emulation, wireless

10 [Optimizing data aggregation for cluster-based internet services](#)



Lingkun Chu, Hong Tang, Tao Yang, Kai Shen

October 2003 ACM SIGPLAN Notices, Volume 38 Issue 10

Publisher: ACM

Full text available:  [pdf\(275.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Large-scale cluster-based Internet services often host partitioned datasets to provide increment scalability. The aggregation of results produced from multiple partitions is a fundamental building block for the delivery of these services. This paper ...

Keywords: cluster-based network services, fault tolerance, load-adaptive tree formation, response time, scalable data aggregation, throughput

11 [Yet another network simulator](#)



Mathieu Lacage, Thomas R. Henderson

October 2006 WNS2 '06: Proceeding from the 2006 workshop on ns-2: the IP network simulator

Publisher: ACM

Full text available:  [pdf\(183.55 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

We report on the design objectives and initial design of a new discrete-event network simulator for the research community. Creating Yet Another Network Simulator (*yans*, <http://yans.inria.fr/yans>) is not the sort of prospect network researchers ...

12 [Terra: a virtual machine-based platform for trusted computing](#)



Tal Garfinkel, Ben Pfaff, Jim Chow, Mendel Rosenblum, Dan Boneh

December 2003 ACM SIGOPS Operating Systems Review, Volume 37 Issue 5

Publisher: ACM

Full text available:  [pdf\(140.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

We present a flexible architecture for trusted computing, called Terra, that allows applications with a wide range of security requirements to run simultaneously on commodity hardware.

Applications on Terra enjoy the semantics of running on a separate, ...

Keywords: VMM, attestation, authentication, trusted computing, virtual machine, virtual machine monitor

13 [A publish/subscribe CORBA persistent state service prototype](#)

C. Liebig, M. Cilia, M. Betz, A. Buchmann

April 2000 Middleware '00: IFIP/ACM International Conference on Distributed systems platforms
Publisher: Springer-Verlag New York, Inc.


Full text available:  [pdf\(283.92 KB\)](#) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#)

An important class of information dissemination applications requires 1:n communication and access to persistent datastores. CORBA's new Persistent State Service combined with messaging capabilities offer the possibility of efficiently realizing information ...

14 [Xen and the art of virtualization](#)



Paul Barham, Boris Dragovic, Keir Fraser, Steven Hand, Tim Harris, Alex Ho, Rolf Neugebauer, Ian Pratt, Andrew Warfield
December 2003 ACM SIGOPS Operating Systems Review, Volume 37 Issue 5
Publisher: ACM

Full text available:  [pdf\(168.76 KB\)](#) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Numerous systems have been designed which use virtualization to subdivide the ample resource of a modern computer. Some require specialized hardware, or cannot support commodity operating systems. Some target 100% binary compatibility at the expense ...

Keywords: hypervisors, paravirtualization, virtual machine monitors

15 [Terra: a virtual machine-based platform for trusted computing](#)



Tal Gartinkel, Ben Pfaff, Jim Chow, Mendel Rosenblum, Dan Boneh

October 2003 SOSP '03: Proceedings of the nineteenth ACM symposium on Operating systems principles
Publisher: ACM

Full text available:  [pdf\(140.31 KB\)](#) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

We present a flexible architecture for trusted computing, called Terra, that allows applications with a wide range of security requirements to run simultaneously on commodity hardware. Applications on Terra enjoy the semantics of running on a separate, ...

Keywords: VMM, attestation, authentication, trusted computing, virtual machine, virtual machine monitor

16 [The loosely-synchronous transfer mode](#)

Danilo Florissi


October 1994 CASCON '94: Proceedings of the 1994 conference of the Centre for Advanced Studies on Collaborative research
Publisher: IBM Press

Full text available:  [pdf\(74.63 KB\)](#) **Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper overviews the novel Loosely-synchronous Transfer Mode (LTM). In LTM, the network signals sources about its current status, that is, destinations to which frames are being currently

routed and quality of service that is being provided. By using ...

17 [A taxonomy of Data Grids for distributed data sharing, management, and processing](#)

 Srikumar Venugopal, Rajkumar Buyya, Kotagiri Ramamohanarao

June 2006 ACM Computing Surveys (CSUR). Volume 38 Issue 1

Publisher: ACM

Full text available:  pdf(1.70 MB)

[Additional Information: full citation, abstract, references, index terms](#)

Data Grids have been adopted as the next generation platform by many scientific communities that need to share, access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance ...

Keywords: Grid computing, data-intensive applications, replica management, virtual organizations

18 [The Globus Striped GridFTP Framework and Server](#)

William Allcock, John Bresnahan, Rajkumar Kettimuthu, Michael Link

November 2005 SC '05: Proceedings of the 2005 ACM/IEEE conference on Supercomputing

Publisher: IEEE Computer Society

Full text available:  pdf(1.16 MB)

[Additional Information: full citation, abstract, references, cited by, index terms](#)


The GridFTP extensions to the File Transfer Protocol define a general-purpose mechanism for secure, reliable, high-performance data movement. We report here on the Globus striped GridFTP framework, a set of client and server libraries designed to support ...

19 [Diagnosing performance overheads in the xen virtual machine environment](#)

 Aravind Menon, Jose Renato Santos, Yoshio Turner, G. (John) Janakiraman, Willy Zwaenepoel

June 2005 VEE '05: Proceedings of the 1st ACM/USENIX international conference on Virtual execution environments

Publisher: ACM


Full text available:  pdf(274.74 KB)

[Additional Information: full citation, abstract, references, cited by, index terms](#)

Virtual Machine (VM) environments (e.g., VMware and Xen) are experiencing a resurgence of interest for diverse uses including server consolidation and shared hosting. An application's performance in a virtual machine environment can differ markedly from ...


Keywords: performance analysis, statistical profiling, virtual machine monitors

20 [A utility-driven framework for loss and encoding aware video adaptation](#)

 Srinivas Krishnan, Ketan Mayer-Patel

September 2007 MULTIMEDIA '07: Proceedings of the 15th international conference on Multimedia

Publisher: ACM

Full text available:  pdf(1.04 MB)

[Additional Information: full citation, abstract, references, index terms](#)

We present a framework for multidimensional utility-driven adaptation for multi-stream video applications. A notable driving application is 3D tele-immersion. Our framework directly models the utility of video frames as well as representation dependencies ...

Keywords: multi-stream adaptation, utility-based adaptation

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